



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ferencz S. Denes  
Sorin O. Manolache  
Noah Hershkowitz

Date: October 8, 2001

Docket No.: 032026:0538

Serial No.: 09/880,737

Group Art Unit: 1615

Filed: June 13, 2001

For: **METHOD OF PRODUCING COLLOIDAL NANOPARTICLES IN A  
DENSE MEDIUM PLASMA**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Patent and Trademark Office, Washington, D.C. 20231 on October 8, 2001.

\_\_\_\_\_  
Harry C. Engstrom

(Name of applicant, assignee  
or Registered Representative)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
October 8, 2001

(Date of Signature)

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Washington, D.C. 20231

Dear Sir:

With respect to the examination of the above-referenced application, applicants cite the following documents, copies of which are enclosed. These documents are also listed on an accompanying Form PTO-1449.

## UNITED STATES PATENTS

<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor(s)</u>
3,169,914	February 16, 1965	Young, et al.
3,840,750	October 8, 1974	Davis, et al.
3,954,954	May 4, 1976	Davis, et al.
4,016,448	April 5, 1977	Nighan, et al.
4,915,955	April 10, 1990	Gomori
5,234,723	August 10, 1993	Babacz
5,437,858	August 1, 1995	Hungerbach, et al.
5,534,232	July 9, 1996	Denes, et al.
5,908,539	June 1, 1999	Young, et al.
6,027,469	February 22, 2000	Johnson

## OTHER DOCUMENTS

Sorin Manolache and Ferencz Denes, "Synthesis of Nanoparticles under Cold-Plasma Conditions," Journal of Photopolymer Science and Technology, Vol. 13, No. 1, 2000, pp. 51-62, presented at the 17<sup>th</sup> Conference of Photopolymer Science and Technology, June 27-30, 2000, Chiba, Japan.

Micronic Silver, web page printout dated January 24, 2000 from [www.healthstar.com/Pages/MicronicSilver.html](http://www.healthstar.com/Pages/MicronicSilver.html).

Clean Water Silver Line, web page printout dated May 16, 2000 from [www.cleanwater.com.br/ing/produtos.htm](http://www.cleanwater.com.br/ing/produtos.htm).

Colloidal Silver, web page printout dated January 24, 2000 from <http://business.fortunecity.com/mars/476/whatiscs.html>.

What is Colloidal Silver?, web page printout dated January 24, 2000 from <http://www.csprosystems.com/whatispg.htm>.

Make Your Own Colloidal Silver, web page printout dated May 16, 2000 from <http://www.csprosystems.com/Editorial.htm>.

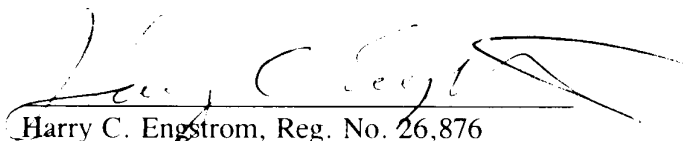
S. Manolache, E.B. Somers, A.C.L. Wong, V. Shamamian, F. Denes, "Dense Medium Plasma Environments...A New Approach for the Disinfection of Water," submitted in October, 2000 for publication to Water Science and Technology.

#### **REMARKS**

The above-referenced patents relate to plasma processing equipment and methods and to the production of colloidal silver and its use as a disinfectant. The paper by Sorin Manolache and Ferencz Denes, two of the inventors on the present application, and the paper by S. Manolache, et al., were published prior to the filing date of the present regular U.S. application and after the filing date of provisional patent application No. 60/219,347, filed June 14, 2000, from which the present application claims priority. The above cited web page printouts describe the production of colloidal silver and its use as a disinfectant.

It is thus requested that the foregoing documents be considered during examination of the above-referenced application and be specifically made of record therein.

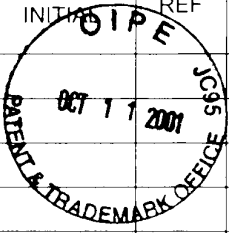
Respectfully submitted,



Harry C. Engstrom, Reg. No. 26,876  
Attorney for Applicants  
Foley & Lardner  
150 East Gilman Street  
Post Office Box 1497  
Madison, Wisconsin 53701-1497  
(608) 258-4207

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026:0538	SERIAL NO. 09/880,737
<b>INFORMATION DISCLOSURE CITATION</b>  <i>(Use several sheets if necessary)</i>		APPLICANT Ferencz S. Denes, et al.	
		FILING DATE June 13, 2001	GROUP ART UNIT 1615

## U.S. PATENT DOCUMENTS

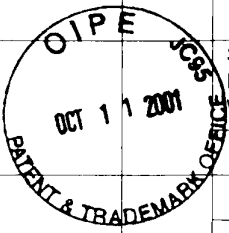
EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		3,169,914	2/16/65	Young, et al.			
		3,840,750	10/8/74	Davis, et al.			
		3,954,954	5/4/76	Davis, et al.			
		4,016,448	4/5/77	Nighan, et al.			
		4,915,955	4/10/90	Gomori			
		5,234,723	8/10/93	Babacz			
		5,437,858	8/1/95	Hungerbach, et al.			
		5,534,232	7/9/96	Denes, et al.			
		5,908,539	6/1/99	Young, et al.			
		6,027,469	2/22/00	Johnson			

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Sorin Manolache and Ferencz Denes, "Synthesis of Nanoparticles under Cold-Plasma Conditions," Journal of Photopolymer Science and Technology, Vol. 13, No. 1, 2000, pp. 51-62, presented at the 17th Conference of Photopolymer Science and Technology, June 27-30, 2000, Chiba, Japan.
		Micronic Silver, web page printout dated January 24, 2000 from <a href="http://www.healthstar.com/Pages/MicronicSilver.html">www.healthstar.com/Pages/MicronicSilver.html</a> .
		Clean Water Silver Line, web page printout dated May 16, 2000 from <a href="http://www.cleanwater.com.br/ing/produtos.htm">www.cleanwater.com.br/ing/produtos.htm</a> .
		Colloidal Silver, web page printout dated January 24, 2000 from <a href="http://business.fortunecity.com/mars/476/whatiscs.html">http://business.fortunecity.com/mars/476/whatiscs.html</a> .

		What is Colloidal Silver?, web page printout dated January 24, 2000 from <a href="http://www.csprosystems.com/whatispg.htm">http://www.csprosystems.com/whatispg.htm</a> .
		Make Your Own Colloidal Silver, web page printout dated May 16, 2000 from <a href="http://www.csprosystems.com/Editorial.htm">http://www.csprosystems.com/Editorial.htm</a> .
		S. Manolache, E.B. Somers, A.C.L. Wong, V. Shamamian, F. Denes, "Dense Medium Plasma Environments...A New Approach for the Disinfection of Water," submitted in October, 2000 for publication to Water Science and Technology.
EXAMINER		DATE CONSIDERED
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.		